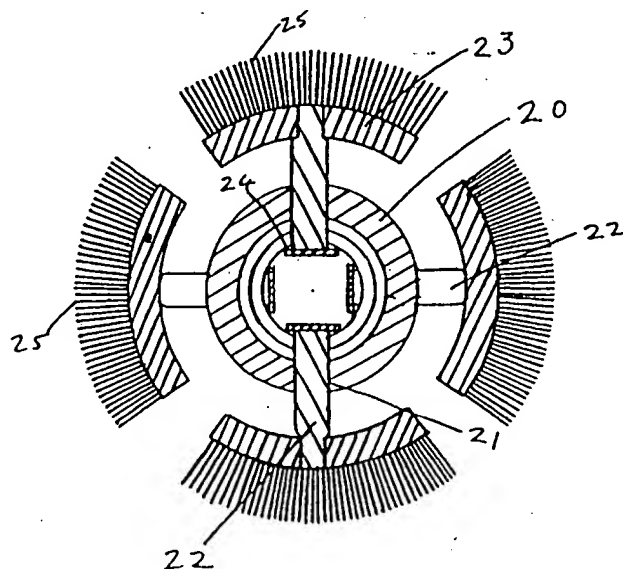




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>F16L 55/28</b>	<b>A1</b>	(11) International Publication Number: <b>WO 99/36724</b> (43) International Publication Date: <b>22 July 1999 (22.07.99)</b>
<p>(21) International Application Number: <b>PCT/GB99/00153</b></p> <p>(22) International Filing Date: <b>18 January 1999 (18.01.99)</b></p> <p>(30) Priority Data: <b>9800905.3</b>      <b>17 January 1998 (17.01.98)</b>      <b>GB</b></p> <p>(71) Applicant (for all designated States except US): <b>UNIVERSITY OF DURHAM [GB/GB]; Old Shire Hall, Old Elvet, Durham DH1 3HP (GB).</b></p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): <b>APPLETON, Ernest [GB/GB]; 9 Duncelm Court, South Street, Durham DH1 4QX (GB). STUTCHBURY, Neil, William [GB/GB]; 8 Glencourse, East Boldon, Tyne &amp; Wear NE36 0LW (GB).</b></p> <p>(74) Agent: <b>VIRR, Dennis, Austin; Urquhart-Dykes &amp; Lord, St. Nicholas Chambers, Amen Corner, Newcastle upon Tyne NE1 1PE (GB).</b></p>	<p>(81) Designated States: <b>AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</b></p> <p><b>Published</b> <i>With international search report.</i></p>	

(54) Title: **SURFACE-TRAVERSING VEHICLE**

## (57) Abstract

A vehicle for traversing a surface such as for carrying out an inspection, survey or maintenance operation upon that surface comprises two bodies interconnected by means to move the bodies towards and away from each other, each of those bodies being supported upon a multiplicity of resilient bristles (13; 25; 32) extending from it, the bristles of each body being mounted in groups upon bristle-carrying members (10; 23; 31) each guided for movement towards and away from the body, and fluid pressure means (25; 22; 34) to effect the guided movement of the bristle-carrying members in at least one of those directions.